

**Figure 1**

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices  $\tilde{A}$  and  $\tilde{B}$ , respectively. The x-axis for both panels is labeled "Number of non-zero elements" and ranges from 0 to 100,000. The y-axis is labeled "Frequency" and ranges from 0 to 100.

Panel A shows the distribution for  $\tilde{A}$ . The histogram has a peak frequency of approximately 90 at around 20,000 non-zero elements. There are several smaller peaks at higher values, up to 80,000.

Panel B shows the distribution for  $\tilde{B}$ . The histogram has a much narrower distribution than Panel A, with a sharp peak frequency of approximately 100 at around 20,000 non-zero elements. There are very few non-zero elements beyond 40,000.

09/854,092

Timothy H Meeks

CHIANG ET AL.

1762

[illegible]

| Class | Subclass | Date     | Examiner |
|-------|----------|----------|----------|
| all   | above    | 12/13/04 | THH      |
|       |          |          |          |
|       |          |          |          |
|       |          |          |          |

[illegible]